

## Title (en)

Low-pressure mercury vapour-filled discharge lamp, luminaire and display device

## Title (de)

Niederdruck-Quecksilberdampfentladungslampe, Leuchte und Anzeigevorrichtung

## Title (fr)

Lampe à décharge à basse pression de vapeur de mercure, luminaire et dispositif d'affichage

## Publication

**EP 0840353 A3 19980617 (EN)**

## Application

**EP 97308738 A 19971031**

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- JP 29092396 A 19961031
- JP 29257596 A 19961105
- JP 29294296 A 19961105
- JP 32060296 A 19961129
- JP 32965396 A 19961210
- JP 19142597 A 19970716
- JP 1953897 A 19970131
- JP 8048997 A 19970331
- JP 9738697 A 19970415
- JP 11281397 A 19970430
- JP 23514797 A 19970829

## Abstract (en)

[origin: EP0840353A2] A low-pressure mercury vapour-filled discharge lamp has a glass arc tube and a glass outer tube disposed coaxially with the arc tube forming a space therebetween. A gas is disposed in the space. The arc tube contains a gas and is coated with a phosphor. A first seal hermetically seals the inner tube. A second seal seals the inner tube to the outer tube. The inner tube further contains a pair of cathodes coupled to Dumet wires extending from the interior of the inner tube to the outside of the lamp structure. The pressure in the space is set at not more than 1 Pa, which is nearly high vacuum. The longer the radial dimension of the space the greater the heat retaining capacity and the better the temperature characteristics which can be obtained. However, by setting the pressure of the space at 1 Pa or less, the optimum heat retaining capacity can be obtained while reducing the diameter of the low-pressure mercury vapour filled discharge lamp 1. <IMAGE>

## IPC 1-7

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## Citation (search report)

- [A] US 4004171 A 19770118 - HEUVELMANS JEAN JOHAN, et al
- [A] EP 0276888 A2 19880803 - PHILIPS PATENTVERWALTUNG [DE], et al
- [A] DE 4012588 A1 19911024 - NORKA NORDDEUTSCHE KUNSTSTOFF [DE]
- [PXA] PATENT ABSTRACTS OF JAPAN vol. 097, no. 008 29 August 1997 (1997-08-29)
- [XA] PATENT ABSTRACTS OF JAPAN vol. 013, no. 444 (E - 828) 5 October 1989 (1989-10-05)
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 698 (E - 1481) 20 December 1993 (1993-12-20)
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 176 (E - 260) 14 August 1984 (1984-08-14)

## Cited by

FR2882489A1; EP1298695A3; EP1112752A3; US6201352B1; US6515433B1; EP1298695A2; WO2006090086A3; US7474044B2; US7919915B2

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